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Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 2, 2026

ANRITSU

Anritsu MS9020B Optical Loss Test Set

The MS9020B provides a handheld modular optical loss test set designed for field insertion-loss and absolute power measurements using plug-in LD/LED sources and optical power sensors, with optional return-loss measurement capability across common telecom and datacom wavelength bands. Field optical loss measurement on SM, GI, and plastic fibers; return loss testing on 1.3 μm SM fiber with optional RL unit; absolute optical power metering; modulated-source loss tests in ambient-light environments; installation and maintenance of fiber links at 0.66, 0.85, 1.3, and 1.55 μm . Powering: AC adapter; NiCd battery; UM-3 alkaline/manganese cells Architecture: Plug-in LD/LED sources, sensors, optional return-loss module Install matching source and sensor plug-ins for fiber type and wavelength. Use modulated mode when ambient light interferes. Zero or reference loss measurements per manual before quoting absolute loss. Performance is entirely plug-in dependent—confirm installed LD/LED, sensor, and optional RL modules before quoting wavelength and range. Related later model MS9020D supersedes MS9020B in the product line; document this unit specifically as MS9020B. Alias MS9020B.



MODEL

Anritsu MS9020B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MS9020B

LISTING

<https://aumictechlabs.com/products/ms9020b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MS9020B Optical Loss Test Set combines light source and optical power meter functionality in a single modular platform for field-deployable fiber optic network testing. This plug-in instrument measures optical loss up to 67 dB using LD sources, optical return loss from 0 to 40 dB in the 1.3 μm band, and absolute optical power across 0.66, 0.85, 1.3, and 1.55 μm wavelengths. The MS9020B supports continuous wave and modulated output at 270 Hz, 1 kHz, and 2 kHz, with exchangeable light source and sensor modules enabling rapid configuration changes in the field.

Technical Specifications

Optical Loss Measurement Maximum loss: 67 dB (LD source) Operating modes: CW and modulated Modulation frequencies: 270 Hz, 1 kHz, 2 kHz Wavelengths: 0.66, 0.85, 1.3, and 1.55 μm Optical Return Loss Measurement Range: 0 to 40 dB (1.3 μm single-mode fiber) Applicable to connectors and optical devices

Optical Power Meter Wavelength calibration: 5 nm steps at three calibration points Measurement resolution (dBm/dB display): 0.01/0.1 dB Measurement resolution (W/W REL display): 0.1 to 1% Optical Sensor Specifications MA9723A: 0.75 to 1.8 μm range MA9622A: +23 dBm maximum input (1.55 μm), return loss >40 dB, polarization dependency 0.1 dB Eight sensor types available

Key Features

Modular, plug-in light source and sensor architecture for field customization Four LD light source types and seven LED source types Switchable dual-wavelength units (MS0904A/B for 0.85/1.3 μm ; MS0909A for 1.3/1.55 μm) Visible 0.635 μm light source for fiber identification and break point detection in single-mode fibers Auto offset for zero-point adjustment Range hold for measurement range specification and control Resume function preserves instrument state after power-down 30-minute backup of settings during line voltage loss Display backlight on/off control Power via AC line, rechargeable battery, or dry cells

Compatibility & Integration Connector support: FC, ST, DIN, HMS-10/A, SC types.

Features & description

From manufacturer datasheet

Features

- Modular plug-in LD and LED sources plus optical power sensors
- Optional return-loss measurement unit
- Wavelength bands: 0.66, 0.85, 1.3, 1.55 μm class
- CW and modulated modes: 270 Hz, 1 kHz, 2 kHz
- Wide dynamic range optical loss measurement
- Return loss approximately 0 to 40 dB class at 1.3 μm SM (with RL unit)
- Power meter range -70 to $+20$ dBm class (sensor dependent)
- Wavelength calibration in 5 nm steps
- AC adapter, NiCd battery, or alkaline cell operation

MS9020B Characteristics / Specifications

PARAMETER	VALUE
Model	MS9020B
Manufacturer	Anritsu
Instrument Type	Optical Loss Test Set (modular)
Wavelength Bands	0.66, 0.85, 1.3, 1.55 μ m class
Source Modulation	CW, 270 Hz, 1 kHz, 2 kHz
Optical Loss	Wide dynamic range (source/sensor pairing dependent)
Return Loss	approximately 0 to 40 dB at 1.3 μ m SM (with optional RL unit)
Power Meter Range	-70 to +20 dBm class (sensor dependent)
Wavelength Calibration	5 nm steps
Powering	AC adapter; NiCd battery; UM-3 alkaline/manganese cells
Architecture	Plug-in LD/LED sources, sensors, optional return-loss module Standard Operating Conditions Install matching source and sensor plug-ins for fiber type and wavelength. Use modulated mode when ambient light interferes. Zero or reference loss measurements per manual before quoting absolute loss.
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Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	MS9020B
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Instrument Type	Optical Loss Test Set (modular)
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Wavelength Calibration	5 nm steps
Powering	AC adapter; NiCd battery; UM-3 alkaline/manganese cells
Architecture	Plug-in LD/LED sources, sensors, optional return-loss module

Standard Operating Conditions

Install matching source and sensor plug-ins for fiber type and wavelength. Use modulated mode when ambient light interferes. Zero or reference loss measurements per manual before quoting absolute loss.

Operational Notes

Performance is entirely plug-in dependent—confirm installed LD/LED, sensor, and optional RL modules before quoting wavelength and range. Related later model MS9020D supersedes MS9020B in the product line; document this unit specifically as MS9020B. Alias MS9020B.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.